



TechnipFMC

Onsite Training Schedule 2022

**Measurement & Production Solutions
Products Training Courses**



> Welcome

Whether your employees are industry veterans or new to the field, we believe in supporting our clients and ensuring their ongoing business success. Our training schools reflect the experience and knowledge gained working nearly 100 years in the oil and gas industry.

The courses are taught by the same measurement specialists that design, engineer, and service our equipment. We offer you and your employees a superior training environment that will assist you with safe, reliable, and efficient system operation. The training workshops use our demonstration equipment and simulators to provide an in-depth, hands-on experience. Our training courses offer students valuable knowledge and practical expertise that allow students to autonomously install, parameterize, maintain, and repair your system.

TechnipFMC also offers customized courses either at your place of business, a TechnipFMC training location, or a location of your choice. We look forward to sharing our knowledge and experience with you at our training seminars. If you require other training services, please do not hesitate to contact us.

- TechnipFMC Training Department

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> Liquid Metering Technologies

Dates and locations

Erie, Pennsylvania, USA - January 25-28, 2022 (\$1500/person)

Overview

This course combines theory and hands-on training to teach skills that students can immediately use in the field to install, operate, calibrate, maintain and troubleshoot TechnipFMC Measurement Solutions Metering Products.

Topics covered include

- ▶ Smith Meter PD meters
- ▶ Conventional turbine meters
- ▶ Multiple viscosity turbine meters
- ▶ Pipeline accessories
- ▶ PD stack accessories
- ▶ AccuLoad
- ▶ MicroFlo.net
- ▶ Coriolis meters
- ▶ Ultrasonic meters
- ▶ Proving and proving methods

Schedule

Erie, Pennsylvania, USA schedule

Tuesday	0830 - 1600
Wednesday	0830 - 1600
Thursday	0830 - 1600
Friday	0830 - 1100

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> Introduction to Load Rack Operation & Maintenance

Dates and locations

Erie, Pennsylvania, USA - February 8-9, 2022 (\$895/person)

Overview

This course combines overview of the electronics and mechanical equipment typically found in load racks that students can immediately use to identify the components and their role in the field.

Topics covered include

- ▶ MicroLoad, AccuLoad III and IV operation overview
- ▶ MicroMate/AccuMate overview
- ▶ Load Rack measurement equipment

Schedule

Erie, Pennsylvania, USA schedule

Tuesday	0830 - 1600
Wednesday	0830 - 1600

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> Smith Meter® AccuLoad® Load Rack

Dates and locations

Erie, Pennsylvania – March 15-18, 2022 (\$1500/person)
Erie, Pennsylvania – April 12-15, 2022 (\$1500/person)

Overview

These courses combine theory, hands-on training and live demonstrations which will provide an understanding of how AccuLoad electronic load controllers interface into the load rack metering system.

Topics covered include

- ▶ General operation
- ▶ Programming function
- ▶ Installation guidelines
- ▶ Smith Meter PD and Prime4 meters
- ▶ Meter service
- ▶ Pulse transmitters
- ▶ Load rack accessories
- ▶ Smith Meter 20 digital control valves
- ▶ Turbine meters for load rack service

Schedule

Erie, Pennsylvania, USA schedule

Tuesday	0830 - 1600
Wednesday	0830 - 1600
Thursday	0830 - 1600
Friday	0830 - 1100

> Smith Meter® AccuLoad®

Dates and locations

Erie, Pennsylvania, USA - June 7-10, 2022 (\$1500/person)
Erie, Pennsylvania, USA - August 23-26, 2022 (\$1500/person)

Overview

Basic metering knowledge and familiarity with load rack/batching operations.

Topics covered include

- ▶ General operation
- ▶ Programming function
- ▶ Installation guidelines
- ▶ Service and diagnostics
- ▶ Communication functions
- ▶ Additive injector interface
- ▶ Auto proving for provers
- ▶ Blending methods and programming (SEQ, ration and hybrid)
- ▶ Pulse transmitter
- ▶ AccuMate software application

Schedule

Erie, Pennsylvania, USA schedule

Tuesday	0830 - 1600
Wednesday	0830 - 1600
Thursday	0830 - 1600
Friday	0830 - 1100

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> Terminal Automation Systems (TAS)

Dates and locations

Erie, Pennsylvania - July 19-20, 2022 (\$895/person)

Overview

This course will familiarize the trainee with the terms, equipment, operation and automation of a typical downstream oil and gas terminal.

Topics covered include

- ▶ Common terminal equipment
- ▶ Daily operation
- ▶ Product and inventory accounting
- ▶ Automation terminology
- ▶ Business management
- ▶ Product management
- ▶ Cybersecurity
- ▶ TAS functionality
- ▶ Integration with third party programs

Schedule

Erie, Pennsylvania, USA schedule

Tuesday	0830 - 1600
Wednesday	0830 - 1600

> LACT Units

Dates and locations

Erie, Pennsylvania, USA - August 16-19, 2022 (\$1500/person)
Dickinson, ND, USA - November 15-18, 2022 (\$1500/person)

Overview

This course covers the design, operation and standards governing Lease Automated Custody Transfer (LACT) metering units.

Topics covered include

- ▶ LACT vs tank gauging
- ▶ LACT unit design
- ▶ Meter technologies
- ▶ Smith Meter 210 digital control valves
- ▶ API standards
- ▶ Proving
- ▶ Control and data logging

Schedule

Tuesday	0830 - 1600
Wednesday	0830 - 1600
Thursday	0830 - 1600
Friday	0830 - 1100

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> Introduction to Custody Transfer Metering

Dates and locations

Houston, Texas, USA - October 18-21, 2022 (\$1500/person)

Overview

This course covers the basic knowledge for engineers and technicians just entering the oil and gas industry.

Topics covered include

- ▶ Flow theory
- ▶ Units of measure
- ▶ Field transmitters
- ▶ Typical control systems
- ▶ Basics of product sampling
- ▶ Measurement uncertainties

Schedule

Tuesday	0830 - 1600
Wednesday	0830 - 1600
Thursday	0830 - 1600
Friday	0830 - 1100

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TechnipFMC's policy of practical training is an excellent learning opportunity. Our Aftermarket Group has found that Best Measurement Practices experience builds a solid working knowledge of measurement systems and products for the client, producing on-site personnel who are knowledgeable and comfortable with the operation and maintenance. The classes detailed here can also be customized to meet a client's particular need by combining classes and focusing on their installed equipment. These unique and individualized courses can be quoted upon request to companies looking for a session held at their site, a centrally located facility to help reduce travel costs, or at one of our facilities located in Germany, Norway and the US.

This training is aimed at clients with an existing installed base and an on-staff team of operations and maintenance personnel. Development of these training programs will result from close interaction with our team to assess the current skills and competencies of a client's staff against "industry norms" for the particular level of the technician.

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